THE 4011 SERIES

FUEL YOUR NETWORK

The RB4011 uses the amazingly powerful quad core Cortex A15 chip from Annapurna labs, an Amazon company, same as in our carrier grade RB1100AHx4 unit. The CPU supports IPsec hardware acceleration, there is 1GB of RAM, so this device will easily handle any task you have configured RouterOS to perform. All of this power, in a compact and professional looking solid metal enclosure in matte black.

1.4GHZ CPU

X4 QUAD CORE ARM

IPSEC ACCELERATED

4 CHAIN WIFI

1733MBPS DATA RATE

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RB4011iGS+5HacQ2HnD-IN

The WiFi model is a dual band, four chain unit with a supported data rate of up to 1733 Mbps in 5 GHz. For legacy devices, the unit also has a dual chain 2.4 GHz interface. The device has large external antennas for amazing 360 degree coverage.

In addition to the ten 1 Gbps ethernet ports, an SFP+ port provides optional 10 Gbps connectivity through an SFP+ module (not included).

Specifications

Product code	RB4011iGS+5HacQ2HnD-IN	
CPU	4 core AL21400 1.4 GHz	
Size of RAM	1 GB	
Storage	NAND 512 MB	
10/100/1000 Ethernet ports	10	
SFP+ port	1	
Switch chip model	RTL8367SB	
Wireless	2.4 GHz radio	5 GHz radio
Wireless regulations	Specific frequency range may be limited by country regulations	
Operating frequency	2412 - 2484 MHz	5150 - 5875 MHz
Wireless interface model	R11e-2HnD	QCA-9984
Supported protocol	802.11b/g/n	802.11a/n/ac
Chains	2	4
Antenna beam width	360°	
Antenna gain	3 dBi (2 antennas dual band, 2 antennas single 5 GHz band)	
Power Jack	1	
PoE in	Yes (port 1), passive, 18 - 57 V	
PoE out	Yes (port 10), passive, up to 57 V	
Max power consumption	23 W without PoE out, 44 W with PoE out	
Supported input voltage	12 V - 57 V (jack)	
Voltage Monitor	Yes	
PCB temperature monitor	Yes	
Operating temperature	-40 C .. +45 C	
Dimensions	228 x 120 x 30 mm	
Serial port	RJ45	
License level	5	
Operating System	RouterOS	

Included

24 V 2.5 A
Power adapter

IEC power cord

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Wireless specifications

RATE (2.4 GHz)	Tx (dBm)	Rx (dBm)
1MBit/s	28	-100
11MBit/s	28	-94
6MBit/s	29	-96
54MBit/s	25	-80
MCS0	26	-96
MCS7	24	-79

RATE (5 GHz)	Tx (dBm)	Rx (dBm)
6MBit/s	33	-96
54MBit/s	29	-81
MCS0	33	-96
MCS7	28	-77
MCS9	26	-72

Ethernet test results

RB4011iGS+5HacQ2HnD-IN		Max possible throughput					
Mode	Configuration	1518 byte		512 byte		64 byte	
		kpps	Mbps	kpps	Mbps	kpps	Mbps
Bridging	none (fast path)	806.4	9,792.9	2,312.9	9,473.6	5,509.7	2,821.0
Bridging	25 bridge filter rules	806.4	9,792.9	1,037.4	4,249.2	1,153.2	590.4
Routing	none (fast path)	806.4	9,792.9	1,923.3	7,877.8	5092,3	2,607.3
Routing	25 simple queues	806.4	9,792.9	1,046.6	4,286.9	960.3	491.7
Routing	25 ip filter rules	593.7	7,209.9	625.2	2,560.8	564.6	289.1

IPsec test results

RB4011iGS+5HacQ2HnD-IN		RB4011iGS+5HacQ2HnD-IN IPsec throughput					
Mode	Configuration	1400 byte		512 byte		64 byte	
		kpps	Mbps	kpps	Mbps	kpps	Mbps
Single tunnel	AES-128-CBC + SHA1	140.8	1577	141,2	578.4	139.9	71.6
256 tunnels	AES-128-CBC + SHA1	192.7	2158.2	200.5	821.2	203.4	104.1
256 tunnels	AES-128-CBC + SHA256	192.4	2154.9	200.5	821.2	203.4	104.1
256 tunnels	AES-256-CBC + SHA1	180.0	2016.0	188.2	770.9	190.3	97.4
256 tunnels	AES-256-CBC + SHA256	180.0	2016.0	188.2	770.9	190.3	97.4
256 tunnels	AES-128-GCM	192.7	2158.2	202.2	828.2	203.4	104.1

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